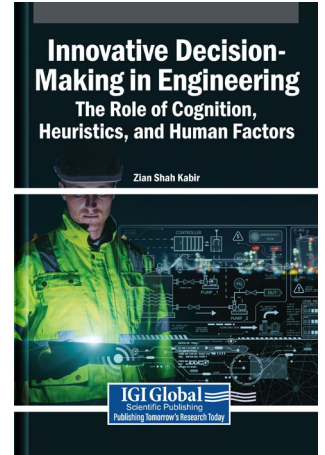


Innovative Decision-Making in Engineering: The Role of Cognition, Heuristics, and Human Factors

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Description:

Cognitive processes, heuristics, and human factors influence the way engineers solve complex problems and design effective solutions. In a field where decisions have technical, economic, and safety implications, recognizing the connections between human judgment and analytical reasoning is essential. By studying how engineers think, simplify problems, and adapt to uncertainty, organizations can develop strategies and tools that enhance creativity, accuracy, and collaboration. Exploring cognition and human behavior in engineering decision-making leads to more resilient, efficient, and human-centered systems.

Innovative Decision-Making in Engineering: The Role of Cognition, Heuristics, and Human Factors explores how cognitive processes, heuristics, and human factors shape decision-making in engineering contexts. It examines the ways in which human judgment, problem-solving strategies, and behavioral influences contribute to innovation, design quality, and system performance. This book covers topics such as data science, fuzzy logic, and renewable technologies, and is a useful resource for computer engineers, sociologists, academicians, researchers, and scientists.

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